

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/37833

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B23F 21/03
US CL : 451/354

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 451/354, 344, 359, 521, 523, 524, 525, 526, 557

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,885,876 A (HENKE) 12 December 1989 (12.12.1989) column 5, line 55- column 6, line 41.	1,4,5,8,12,13
Y	US 5,323,507 A (TOSATO) 28 June 1994 (28.06.1994) column 1, lines 61-68.	1,4,5,8,12,13

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| "A" | document defining the general state of the art which is not considered to be of particular relevance | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
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| "O" | document referring to an oral disclosure, use, exhibition or other means | "&" | document member of the same patent family |
| "P" | document published prior to the international filing date but later than the priority date claimed | | |

Date of the actual completion of the international search

25 March 2004 (25.03.2004)

Date of mailing of the international search report

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